

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

- 1-11. (Canceled)
12. (Currently Amended) Filter device for molten steel filtration comprising a carbon bonded network of graphitizable-graphitized carbon-fired in a non-oxidizing atmosphere at a temperature up to 1000°C, the graphitized carbon constituting the bonded network being present in an amount up to 15% by weight of the filter, the filter device comprising a protruding frame joining a plurality of sieve plates, each plate including a corrugated surface, the protruding frame and sieve plates defining a reservoir chamber, ~~wherein the graphitizable carbon is present in an amount produced by a positive amount up to 15% by weight of a graphitizable carbon precursor, said carbon bonded network being obtained by preparing a semi-damp mixture comprising a ceramic powder and a graphitizable carbon bonding precursor, and, after forming said filter device from said mixture, firing said filter in a reducing or non-oxidizing atmosphere to a temperature of up to 1000°C.~~
13. (Previously Presented) The filter device of claim 12, wherein at least one corrugated surface includes a surface corrugation from 0.1-10 mm.
14. (Previously Presented) The filter device of claim 13, wherein the surface corrugation is from 1-5 mm.
15. (Previously Presented) The filter device of claim 12, wherein each sieve plate defines a plurality of through holes, and the through holes of a first plate are spaced laterally from the through holes of a second plate.
16. (Previously Presented) The filter device of claim 15, wherein the through holes have a diameter from 1-10 mm.
17. (Previously Presented) The filter device of claim 16, wherein the through hole diameter is from 2-5 mm.

18. (Previously Presented) The filter device of claim 15, wherein the through holes comprise a shape selected from the group consisting of circular, elliptical, triangular, square, rectangular, pentagonal and hexagonal.

19. (Previously Presented) The filter device of claim 12, wherein the sieve plates include a substantially an identical geometry.

20. (Previously Presented) The filter device of claim 12, wherein the filter comprises a ceramic raw material.

21. (Previously Presented) The filter device of claim 20, wherein the ceramic raw material includes reinforcing fiber.

22. (Currently Amended) A method for producing a filter device comprising a carbon bonded network of graphitizable-graphitized carbon, the graphitized carbon constituting the bonded network being present in an amount up to 15% by weight of the filter, the filter device comprising a protruding frame joining a plurality of sieve plates, each plate including a corrugated surface, the protruding frame and sieve plates defining a reservoir chamber, the method comprising:

- a) pressing a semi-damp mixture comprising ceramic powder and a graphitizable carbon bonding precursor and fibers to obtain a first and second perforated sieve plate, each plate having a disk shape, a protruding frame, and corrugated surface on at least one surface;
- b) forming an assembly by joining the first and second perforated sieve plates by the protruding frames using a binder, whereby the plates and frame define a reservoir chamber; and
- c) firing the assembly in a non-oxidizing atmosphere to a temperature up to 1000°C<sub>7</sub> wherein the graphitizable carbon is present in an amount produced by a positive amount up to 15% by weight of a graphitizable carbon precursor to obtain said carbon bonded

network.

23. (Previously Presented) The method of claim 22, wherein the binder is selected from a group consisting of ceramic or carbon.

24. (Previously Presented) The method of claim 22, wherein the non-oxidizing atmosphere is a reducing atmosphere.

25. (Previously Presented) The method of claim 22, wherein firing occurs between 600-700°C.

26. (Previously Presented) The method of claim 22, including roughening the corrugated surface.

27-28. (Canceled)